### PATENT COOPERATION TREATY

rom the NTERNATIONAL SEARC To:	HING AUTHO	DRITY	PCT		
see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)		
			Date of mailing (day/month/year) se	e form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220			FOR FURTHER A See paragraph 2 belo	ACTION	
International application No PCT/EP2004/001208		International filing date (date)	day/month/year)	Priority date (day/month/year) 13.02.2003	
International Patent Classifi A61K31/60, A61K31/5	ication (IPC) or I 19, A61K31/	both national classification 4184, A61P9/00	and IPC		
Applicant BOEHRINGER INGEL	LHEIM INTE	RNATIONAL GMBH	& CO. KG		
Box No. II F Box No. III I Box No. IV I Box No. V I Box No. VI Box No. VII I Box No. VIII I	<ul> <li>Box No. II Priority</li> <li>Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li>□ Box No. IV Lack of unity of invention</li> <li>□ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> <li>□ Box No. VI Certain documents cited</li> </ul>				
2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.					
		Form PCT/ISA/220.			
	a of the ISA:		Authorized Officer		

Name and mailing address of the ISA:

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas

Leherte, C



4. Additional comments:

International application No. PCT/EP2004/001208

	Box		
1.	the I	lanç	gard to the <b>language</b> , this opinion has been established on the basis of the international application in guage in which it was field, unless otherwise indicated under this item.
		lan (ur	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search address 12.3 and 23.1(b)).
2.	With	n re ess	gard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. ty	pe	of material:
	٠ ر	כ	a sequence listing
		3	table(s) related to the sequence listing
	b. fo	orm	at of material:
	0		in written format
	[		in computer readable form
	c. ti	me	of filing/furnishing:
	[		contained in the international application as filed.
	[		filed together with the international application in computer readable form.
	ſ		furnished subsequently to this Authority for the purposes of search.
3.		ha cc	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.

International application No. PCT/EP2004/001208

	Box No.	I Priority		
1. [	⊠ The f	ollowing document has not been furnished:		
	⊠	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).		
		translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).		
	Cons	equently it has not been possible to consider the validity of the priority claim. This opinion has rtheless been established on the assumption that the relevant date is the claimed priority date.		
2.	hae l	opinion has been established as if no priority had been claimed due to the fact that the priority claim been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international date indicated above is considered to be the relevant date.		
3.	Additional observations, if necessary:			

International application No. PCT/EP2004/001208

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
	the entire international application,					
$\boxtimes$	claims Nos. 1-3, 5					
bed	because:					
⊠	the said international application, or the said claims Nos. 1, 2 (with respect to industrial applicability) relate to the following subject matter which does not require an international preliminary examination (specify):					
	see separate sheet					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
⊠	no international search report has been established for the whole application or for said claims Nos. 1, 3, 5 (all partially)					
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
	the written form		has not been furnished			
			does not comply with the standard			
	the computer readable form		has not been furnished			
			does not comply with the standard			
	the tables related to the nucleon not comply with the technical	otide equir	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.			
	See separate sheet for further	deta	ils			

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-6

1-6

Industrial applicability (IA)

Yes: Claims

No: Claims

see seperate sheet

2. Citations and explanations

see separate sheet

#### Box No. VI Certain documents cited

1. Certain published documents (Rules 43*bis*.1 and 70.10)

and / or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

PCT/EP2004/001208

#### Re Item III.

# Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- 1) Claims 1 and 2 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).
- 2) Claims 1, 3 and 5 encompass a genus of compounds defined only by their function ("angiotensin II antagonist"), wherein the relationship between the structural features of the members of the genus and said function have not been defined. In the absence of such a relationship either disclosed in the as-filed application or which would have been recognized based upon information readily available to one skilled in the art, the skilled artisan would not know how to make and use compounds that lack structural definition. The fact that one could have assayed a compound of interest using the claimed assays does not overcome this defect since one would have no knowledge beforehand as to whether or not any given compound (other than those that might be particularly disclosed in an application) would fall within the scope of what is claimed. It would require undue experimentation (be an undue burden) to randomly screen undefined compounds for the claimed activity.

The claims cover all combinations of angiotensin II antagonist with dipyridamole and aspirin, whereas the application provides support and/or disclosure within the meaning of Article 6 PCT for only one such combinations, namely: dipyridamole in combination with acetylsalicylic acid and telmisartan.

In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the pharmaceutical composition, containing dipyridamole in combination with acetylsalicylic acid and telmisartan.

No opinion will be given in respect of subject-matter which is not covered by the search report (Rule 66.1(e) PCT).

PCT/EP2004/001208

#### 3) INVENTIVE STEP

The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claim 1-6 does not involve an inventive step in the sense of Article 33(3)PCT.

The problem to be solved by the present application is the provision of a medicament for the prevention of stroke or reducing the risk of stroke.

The solution proposed by the applicant is a medicament containing dipyridamole in combination with acetylsalicylic acid (ASA) and an angiotensin II antagonist,

Documents D1 discloses the use of AT II antagonists in the manufacture of a medicament for the prevention of stroke.

Document D2, D3 and D4 show that Aggrenox(R) (extended-release dipyridamole and aspirin in combination) are used for the prevention of stroke.

The use of a combination of two or more active ingredients with known identical therapeutic use can only be considered as inventive when a surprising effect, an unexpected high synergistic effect or reduced side effects for example, can be assigned in relation to the claimed therapeutic use. In this respect, the present application lacks supportive evidence.

#### Re Item V.

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Attention is drawn to the fact that the present statement expressed as to novelty, inventive step and industrial applicability refers only to matter for which an International Search Report has been drawn up (i.e. only for pharmaceutical compositions, containing dipyridamole in combination with acetylsalicylic acid and telmisartan.

### 1) INDUSTRIAL APPLICABILITY

For the assessment of the present claims 1 and 2 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

### 2) DOCUMENTS USED IN EXAMINATION

The following documents are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: WO 01/15673 A

D2: XP000933411, MEDICAL LETTER ON DRUGS AND THERAPEUTICS, vol. 42, no. 1071, pages 11-12

D3: XP009033957, REVUE MEDICALE DE LIEGE, vol. 55, no. 10, 2000, pages 957-959

D4: XP009033969, HEART DRUG, KARGER, vol. 2, no. 2, pages 93-104

Unless indicated otherwise reference is made to the passages considered relevant in the search report.